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Title *Enhancement of EM Performance of C-sandwich Radome using Wire Grids*

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Abstract

The broadbanding of the C-sandwich radome panel using symmetric wire grids is presented. The core thickness is optimized for maximum power transmission over X-Band. The EM performance parameters are evaluated based on the equivalent transmission line method. A comparative study is carried out to establish the superior broadband EM performance of wire compensated C-sandwich wall with the conventional structure at normal incidence and at high incidence angles often encountered in streamlined airborne radomes. The wire grids embedded in the wall configuration improve the structural rigidity desirable for aerospace applications.